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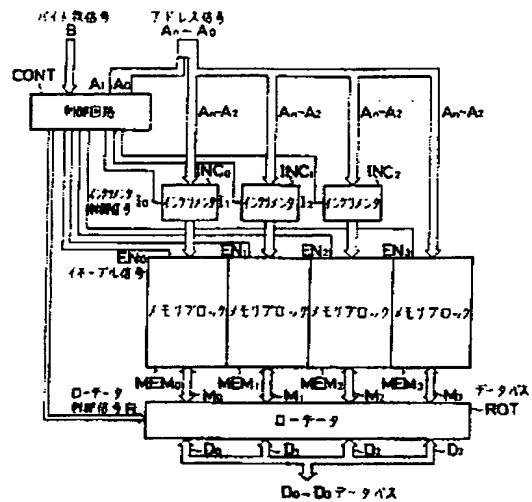
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APPLICANT : NEC CORP;

INVENTOR : YAMAZAKI KEIICHI;

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TITLE : MEMORY CIRCUIT



ABSTRACT : PURPOSE: To access with only one memory access even when the data of a memory to be accessed is present over a word boundary by providing a control circuit which controls the incrementor of an address and the rotator of the data.

CONSTITUTION: When the number of data having three bytes and memory addresses $A_n-A_0=4k+2$ of a forefront byte is read out, memory blocks MEM_0 , MEM_2 , and MEM_3 are objects of an access, and an incrementor control signal l_0 is outputted only to an incrementor INC_0 , and an individual address (k) is accessed to the memory blocks MEM_2 , and MEM_3 , and an individual address ($k+1$) to the memory block MEM_0 . Furthermore, each of data buses M_2 , M_3 , M_0 , and M_1 is connected to data buses D_0-D_3 by a rotator ROT , and the data of addresses $4k+2$, $4K+3$, and $4(k+1)+0$ of the memory are outputted to the data buses D_0-D_2 respectively. An operation to write the data on the memory can be performed in the same manner.

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